

| L Number | Hits | Search Text | DB | Time stamp |
|----------|------|---|----------------------------|------------------|
| 1 | 7 | (pay adj public) adj (telephone or phone or terminal) | USPAT | 2002/10/02 15:05 |
| 2 | 5761 | (pay or public) adj (telephone or phone or terminal) | USPAT | 2002/10/02 15:11 |
| 3 | 31 | (false or fake) with (dial\$5 adj tone) | USPAT | 2002/10/02 15:12 |
| 4 | 5 | ((pay or public) adj (telephone or phone or terminal)) and ((false or fake) with (dial\$5 adj tone)) | USPAT | 2002/10/02 15:07 |
| 5 | 7330 | (pay or public) adj (telephone or phone or terminal) | EPO; JPO; DERWENT; IBM_TDB | 2002/10/02 15:11 |
| 6 | 20 | (false or fake or simulat\$4) with (dial\$5 adj tone) | EPO; JPO; DERWENT; IBM_TDB | 2002/10/02 15:14 |
| 7 | 1 | ((pay or public) adj (telephone or phone or terminal)) and ((false or fake or simulat\$4) with (dial\$5 adj tone)) | EPO; JPO; DERWENT; IBM_TDB | 2002/10/02 15:12 |
| 8 | 121 | (false or fake or simulat\$4) with (dial\$5 adj tone) | USPAT | 2002/10/02 16:08 |
| 9 | 29 | ((pay or public) adj (telephone or phone or terminal)) and ((false or fake or simulat\$4) with (dial\$5 adj tone)) | USPAT | 2002/10/02 15:15 |
| 10 | 2332 | (calling or phone or telephone or prepaid or (prepaid adj calling)) adj card | USPAT | 2002/10/02 16:06 |
| 11 | 1 | ((false or fake or simulat\$4) with (dial\$5 adj tone)) same ((calling or phone or telephone or prepaid or (prepaid adj calling)) adj card) | USPAT | 2002/10/02 15:29 |
| 12 | 13 | ((false or fake or simulat\$4) with (dial\$5 adj tone)) and ((calling or phone or telephone or prepaid or (prepaid adj calling)) adj card) | USPAT | 2002/10/02 15:29 |
| 13 | 6758 | (calling or phone or telephone or prepaid or (prepaid adj calling)) adj card | EPO; JPO; DERWENT; IBM_TDB | 2002/10/02 16:06 |
| 14 | 20 | (false or fake or simulat\$4) with (dial\$5 adj tone) | EPO; JPO; DERWENT; IBM_TDB | 2002/10/02 16:08 |
| 15 | 0 | ((calling or phone or telephone or prepaid or (prepaid adj calling)) adj card) and ((false or fake or simulat\$4) with (dial\$5 adj tone)) | EPO; JPO; DERWENT; IBM_TDB | 2002/10/02 16:08 |

US-PAT-NO: 5144649

DOCUMENT-IDENTIFIER: US 5144649 A

TITLE: Cellular radiotelephone credit card paystation method

----- KWIC -----

For example, conventional CMR pay service systems typically require the CMR to place a "system" call to a credit card clearing house prior to permitting a customer to place his or her "customer" call. The system call validates or authorizes the use of the credit card in paying for the customer call and passes information used in billing or in authorizing only particular calls. However, the vast majority of credit card issuers do not require pre-authorization as a condition of billing. At the present time, only the issuer of an AT&T calling card requires such pre-authorization. Accordingly, most customers have credit cards which do not require such pre-authorization, and most cellular credit card calls are made using credit cards that do not require such pre-authorization.

A second serial data bus 44 and a second audio bus 46 interconnect cradle 36 with a remote programmable unit (RPU) 48. In addition, an ignition input 52 to RPU 48 couples to the ignition of an automobile (not shown) in which CMR 12 is installed. Likewise, a conventional credit card reader 54 couples to RPU 48. Card reader 54 may include a dual head reader capable of reading both track one and track two of a credit card's magnetic stripe. All American Banking Association (ABA) credit card formats will be read via track two, while the information on track one may be used for other types of credit cards, such as the Hertz Gold Card and the AT&T calling card. RPU 48 regenerates serial and audio busses 44 and 46 as serial data and audio busses 56 and 58, respectively. In addition, RPU 48 has a simulated ignition output 60. Busses 56 and 58, and output 60 couple to a conventional transmit-receive unit (TRU) 62. As is conventional, an antenna 64 through which TRU 62 communicates with PSTN 14 (see FIG. 1) also couples to TRU 62. RPU 48 may represent a kit which is installed between a conventional CU 42 and a conventional TRU 62 of a conventional non-credit card paystation CMR. The use of conventional non-credit card equipment as a platform to which remote programmability and credit card pay service hardware are added reduces costs due to the mass production of such conventional equipment. Preferably, RPU 48 and reader 54 are physically

mounted to CU 42.

In addition, the foreground procedures monitor ignition input signal 52, and set or reset output signals which operate dial tone generator 77 and which serve as simulated ignition signal 60. These foreground procedures are discussed below in connection with FIGS. 8-21.